

Contributions to the Bryological Flora of Eastern Asia (VII)

By

Yoshiwo HORIKAWA

堀川芳雄: 東亞産蘚苔植物報告 (其七)

78) ***Anthelia Juratzkana*** (LIMPRICHT) TREVISAN in Mem. Ist. Lomb. 3 (1877) p. 416.

Jungermannia nivalis SWARTZ in WAHL., Fl. Carp. (1814) p. 363 ?

Jungermannia Juratzkana LIMPRICHT, Krypt. Fl. Schles. (1877) p. 289.

Anthelia nivalis LINDBERG, Musc. scand. (1879) p. 5.

Hab. On damp rocks in the alpine region.

Saghalien: Mt. Tainandake, ins. Kaibatô (Y. HORIKAWA, Sept. 18, 1939).

The present species is a new addition on the flora of Japanese Territory.

79) ***Lophocolea minor*** NEES, Naturg. Europ. Leberm. II (1836) p. 330.

Jungermannia crocata DE NOTARIS in Mem. Acad. Torino, II. 1 (1839) p. 323.

Lophocolea crocata NEES, Syn. Hep. (1845) p. 160.

Lophocolea heterophylla var. *minor* DOUIN in Rev. Bryol. XXXIV (1907) p. 23.

Nom. Jap. *Hime-nioiurokogoke*, *Hime-tosakagoke*.

Hab. On decayed logs.

Saghalien: Huyô-Siomidai, prov. Honto (Y. HORIKAWA, Sept. 17, 1939).

The species is new to the flora of Saghalien.

80) ***Chiloscyphus polyanthus*** (LINNÆUS) CORDA in OPIZ, Beitr. I (1829) p. 651.

Jungermannia polyanthus LINNÆUS, Sp. pl. ed. 2 (1762) p. 1597.

Nom. Jap. *Fuzi-urokogoke*.

Hab. In swamps.

Kuriles: Syakotan, ins. Sikotan (Y. HORIKAWA, Aug. 9, 10, 1938).

The present species is a new addition to the flora of the Kuriles.

81) **Madotheca vernicosa** (LINDBERG) STEPHANI, Sp. Hep. IV (1910) p. 314.

Porella vernicosa LINDBERG in Acta Soc. Sci. fenn. X (1872) p. 224.

Nom. Jap. *Urusigoke*, *Nisubiki-kayagoke*.

Hab. On the bark of trees.

Saghalien : Mt. Suzuyadake, prov. Toyohara (Y. HORIKAWA, Sept. 14, 1939);
Kitakotan & Mt. Tainandake, ins. Kaibatô (Y. HORIKAWA, Sept. 18, 19, 1939).

The species is new to Saghalien.

82) **Frullania moniliata** (REINWARDT, BLUME et NEES) MONTAGNE in Ann. Sci. Nat. Sér. II. XVIII (1842) p. 13.

Jungermannia moniliata REINWARDT, BLUME et NEES in Nova Acta Acad. Cæsal. Leop. Carol. XII. P. I (1824) p. 224.

Frullania clavellata MITTEN in Trans. Linn. Soc. 2 Ser. III (1891) p. 203.

Frullania appendiculata STEPHANI in Bull. Herb. Boiss. V (1897) p. 88.

Frullania breviramea STEPHANI, Sp. Hep. IV (1911) p. 547.

Nom. Jap. *Sidare-yasudegoke*, *Frullani-goke*.

Hab. On the barks and rock-cracks.

Hokkaidô : Nopporo-Kokuyurin, prov. Isikari (Y. HORIKAWA, July 31, 1937).

Saghalien : Mt. Tainandake, ins. Kaibatô (Y. HORIKAWA, Sept. 18, 1939).

This species is new to the floras of Hokkaidô & Saghalien.

83) **Fossombronia Wondraczeki** (CORDA) DUMORTIER, Rec. d'observ. (1835) p. 11.

Jungermannia Wondraczeki CORDA in STURM, Deutsch. Fl. II, fasc. 19-20 (1830) p. 30.

Fossombronia cristata LINDBERG in Acta Soc. Fauna et Fl. Fenn. (1873).

Hab. On bare, moist footpaths.

Saghalien : Mt. Tainandake ins. Kaibatô (Y. HORIKAWA, Sept. 18, 1939).

This species is not only new to the flora of Japanese Territory, but also to the Eastern Asia.

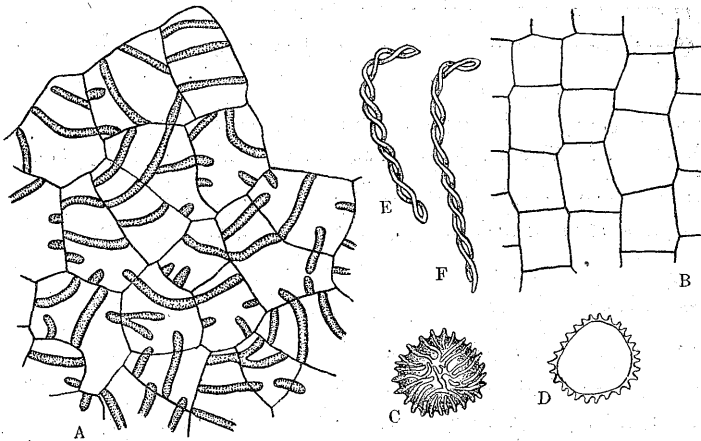


Fig. 19. *Fossombronia Wondraczeki* (CORDA) DUMORTIER. A. Inner wall of capsule, $\times 330$. B. Outer wall of capsule, $\times 330$. C, D. Spores, $\times 330$. E, F. Elaters, $\times 330$.

84) ***Pellia Fabbroniana*** RADDI in Mem. Soc. Ital. Sci. Mod. XVIII (1818) p. 49.

Pellia endiviæfolia DUMORTIER, Rec. d'obs. (1835) p. 27.

Jungermannia calycina TAYLOR in MACKAY, Fl. Hibern. 2 (1836) p. 55.

Pellia calycina NEES, Naturg. Europ. Leberm. III (1838) p. 386.

Marsilia endiviæfolia LINDBERG, Muse. scand. (1879) p. 10.

Nom. Jap. *Hosoba-mizuzenigoke*.

Hab. On wet banks.

Hokkaidô: Kamizi, prov. Tesio (Y. HORIKAWA, Sept. 20, 1939); Sizukari, prov. Iburi (Y. HORIKAWA, Sept. 22, 1939).

Saghalien: Mt. Tainandake, ins. Kaibatô (Y. HORIKAWA, Sept. 18, 1939).

This species is new to the floras of Hokkaidô and Saghalien.

85) ***Blasia pusilla*** LINNÆUS, Sp. plant. ed. 1 (1753) p. 1138.

Jungermannia Blasia HOOKER, Brit. Jungerm. (1816) tab. 83 et 84.

Nom. Jap. *Usuba-zenigoke*, *Yawara-usubagoke*.

Hab. On the moist banks.

Saghalien: Honto, prov. Honto (Y. HORIKAWA, Sept. 19, 1939); Kitakotan, ins. Kaibatô (Y. HORIKAWA, Sept. 18, 1939).

This species is new to the flora of Saghalien.

86) **Conocephalus conicus** (LINNÆUS) NECKER, Elem. Bot. III (1791) p. 1604.

Marchantia conica LINNÆUS, Sp. plant. II (1763) p. 1604.

Fegatella officinalis RADDI, Opusc. Sci. d. Bologna II (1818) p. 356.

Fegatella conica CORDA in OPIZ. Beitr. I (1929) p. 649.

Conocephalus vulgaris BISCHOFF in Leop. Nova Acad. Cæs. Car. XVII (1835).

Conocephalus nemorosus HÜBENER, Hep. Germ. (1834) p. 9.

Nom. Jap. *Zyagoke*, *Ô-zyagoke*.

Hab. On wet soil in sheltered places.

Saghalien : Mt. Suzuyadake, prov. Toyohara (Y. HORIKAWA, Sept. 14, 1939).

Kasuga-tôge, prov. Toyohara (Y. HORIKAWA, Spt. 15, 1939) ; Honto, prov.

Honto (Y. HORIKAWA, Sept. 19, 1939) ; Kitakotan & Mt. Tainandake, ins.

Kaibatô (Y. HORIKAWA, Sept. 18, 1939).

This is a new addition to the flora of Saghalien.

87) **Conocephalus supradecompositus** (LINDBERG) STEPHANI in Bull. Herb. Boiss. V (1897) p. 82.

Nom. Jap. *Hime-zyagoke*.

Hab. On moist shady soil.

Saghalien : Toyohara, prov. Toyohara (Y. HORIKAWA, Sept. 13, 1939) ;

Kasuga-tôge, prov. Toyohara (Y. HORIKAWA, Sept. 15, 1939) ; Honto, prov.

Honto (Y. HORIKAWA, Sept. 19, 1939) ; Kitakotan, ins. Kaibatô (Y. HORIKAWA,

Sept. 18, 1939).

The species is new to the flora of Saghalien.

88) **Bryoxiphium Savatieri** (HUSNOT) MITTEN in Trans. Linn. Soc. Ser. 2. Bot. III. (1891) p. 154.

Eustichia Savatieri HUSNOT in Rev. Bryol. V (1883) p. 85.

Eustichia japonica BERGGR. in Flora (1881) p. 290.

Nom. Jap. *Ebigoke*, *Iwama-ebigoke*.

Hab. On damp shaded rocks.

Saghalien: Mt. Tainandake, ins. Kaibatô (Y. HORIKAWA, Sept. 18, 1939).

This is new to the flora of Saghalien.

89) **Trematodon longicollis** MICHAUX, Fl. Amer. boreal. II (1803) p. 289.

var. **minor** HORIKAWA, var. nov.

Planta fere humilior quam typo, seta vulgo 8 mm longa.

Hab. On earth along footpaths.

Saghalien: Mt. Tainandake ins. Kaibatô (Y. HORIKAWA, Sept. 18, 1939).

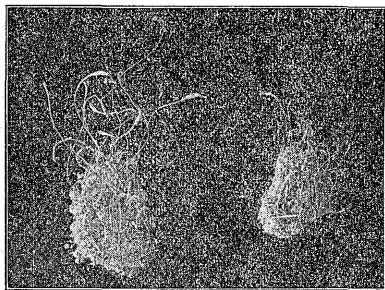


Fig. 20. Left. *Trematodon longicollis* MICHX. from Ceylon ($\times 1$). Right. *Tr. longicollis*, var. *minor* HORIKAWA ($\times 1$).

90) **Funaria hygrometrica** (LIN-

NÆUS) SIBTH., Fl. oxon. (1794) p. 288.

Mnium hygrometricum LINNÆUS, Sp. plant. 1 ed. II (1753) p. 1110.

Bryum hygrometricum SCOPOLI, Fl. Carn. (1760).

Kæhreuteria hygrometrica HEDWIG, Fund. Muse. I (1781) t. 5.

Nom. Jap. Hyôtan-goke, Simeri-hyôtan-goke.

Hab. On earth.

Saghalien: Toyohara, prov. Toyohara (Y. HORIKAWA, 13, 1939); Mt. Tainandake, ins. Kaibatô (Y. HORIKAWA, Sept. 18, 1939).

New to the flora of Saghalien!

91) **Georgia pellucida** (LINNÆUS) RABENHORST, Deutschl. Kryptfl. II. 3. (1848) p. 231.

Mnium pellucidum LINNÆUS, Sp. plant. II (1753) p. 1109.

Bryum pellucidum ABBOT, Fl. Bedf. (1798) p. 237.

Tetraphis pellucida HEDWIG, Sp. Muse. (1801) p. 43.

Tetraphis oblonga TURNER, Muse. hibern. (1804) p. 12.

Tetraphis cylindrica VOIT, M. Herbip. (1812) p. 17.

Nom. Jap. Yotuba-goke, Kutikino-aka-goke.

Hab. On the decayed woods.

Saghalien: Toyohara, prov. Toyohara (Y. HORIKAWA, Sept. 13, 1939);

Kiminai, prov. Ôtomari (S. SUGAWARA, Sept. 30, 1939); Hattiyôrei, prov.

Ôtomari (Y. HORIKAWA, Sept. 17, 1939).

New to Saghalien !

92) **Bryum argenteum** LINNÆUS, Sp. Plant. (1753) p. 1120.

Hypnum argenteum SCHRANK, Bayer. Fl. (1789) p. 469.

Mnium argenteum HOFFMANN, Deutsch. Fl. II (1796) p. 51.

Argyrobryum argenteum KINDBERG, Laubm. Schw. u. Norw. (1883) p. 78.

Nom. Jap. Gin-goke, Siro-goke, Sirogane-goke.

Hab. On earth.

Saghalien : Toyohara, prov. Toyohara (Y. HORIKAWA, Sept. 13, 1939); Kitakotan, ins. Kaibatô (Y. HORIKAWA, Sept. 18, 1939).

New to Saghalien !

93) **Mnium undulatum** (LINNÆUS) WEIS, Pl. crypt. fl. Gött. (1870) p. 158.

Mnium serpyllifolium δ *undulatum* LINNÆUS, Sp. Plant. II (1753) p. 1113.

Bryum serpyllifolium γ *undulatum* HUDS., Fl. Angl. 1 ed. (1762) p. 417.

Bryum ligulatum SCHREB., Spic. Fl. Lips. (1771) p. 84.

Mnium ligulatum WILLD., Prodr. fl. Berol. (1787) p. 334.

Hypnum undulatum SCHRANK, Bayer. Fl. II (1789) p. 474.

Polytrichum undulatum SCHRANK, Prim. fl. Salisb. (1792) p. 223.

Astrophyllum undulatum LINDRERG, Musc. Scand. (1879) p. 13.

Nom. Jap. Namigata-tyôtin-goke.

Hab. On earth.

Saghalien : Mt. Tainandake, ins. Kaibatô (Y. HORIKAWA, Sept. 18, 1939).

This species is new to the flora of Saghalien !

94) **Aulacomnium androgynum** (LINNÆUS) SCHWÆGRICHEN, Suppl. III, P. I, fasc. 1 (1827) Mon. p. 2.

Mnium androgynum LINNÆUS, Sp. Plant. II (1753) p. 1110.

Mnium angustifolium NECKER, Meth. M. (1771) p. 234.

Bryum androgynum WEBER, Spic. Fl. Goett. (1778) p. 122.

Hypnum androgynum SCHRANK, Bayer. Fl. II (1789) p. 469.

Gymnocybe androgyna FRIES, St. agr. femsj. (1825) p. 27.

Nom. Jap. Komoti-nagami-tyôtingoke (nov.)

Hab. On wetty soil.

Hokkaidô: Asatino, prov. Kitami (Y. HORIKAWA, July 26, 1937); Wakkanai, prov. Kitami (Y. HORIKAWA, July 28, 1937).

Saghalien: Mt. Suzuyadake, prov. Toyohara (Y. HORIKAWA, Sept. 14, 1939); Namikawa, prov. Toyohara (Y. HORIKAWA, Sept. 13, 1939); Kiminai, prov. Ôtomari (S. SUGAWARA, Sept. 30, 1939); Kaizuka, prov. Ôtomari (S. SUGAWARA, Sept. 30, 1939).

The present species is new to Asia!

95) **Aulacomnium heterostichum** (HEDWIG)

BRUCH et SCHIMPER, Bryol. europ. IV, fasc. 10, (1836-51); Mon. p. 7.

Arrhenopterum heterostichum HEDWIG, Sp. Musc. (1801) p. 198.

Mnium heterostichum BRIDEL, Bryol. univ. II (1827) p. 12.

Nom. Jap. Nagami-tyôtingoke.

Hab. On moist humus.

Saghalien: Mt. Tainandake, ins. Kaibatô (Y. HORIKAWA, Sept. 18, 1939).

New to Saghalien!

96) **Philonotis fontana** (LINNÆUS) BRIDEL, Bryol. univ. II (1827) p. 18.

Mnium fontanum LINNÆUS, Sp. Plant. 2 ed. (1762) p. 1574.

Bryum fontanum SCHREBER, Spic. Fl. Lips. (1771) p. 75.

Hypnum fontanum SCHRANK, Bayer. Fl. II (1789) p. 472.

Bartramia fontana SWARTZ in SCHRADER Journ. II (1800) p. 183.

Nom. Jap. Sawa-goke.

Hab. In springs or wet places.

Saghalien: Mt. Suzuyadake, prov. Toyohara (Y. HORIKAWA, Sept. 14, 1939);

Kiminai, prov. Ôtomari (S. SUGAWARA, Sept. 30, 1939); Mt. Tainandake, ins.



Fig. 21. *Aulacomnium androgynum* (L.) SCHWÆGR. in nat. size.

Kaibatô (Y. HORIKAWA, Sept. 18, 1939).

New to Saghalien !

97) **Neckeropsis nitidula** (MITTEN) FLEISCHER, *Musc. Fl. Buitenzorg* III (1906-08) p. 882.

Omalia nitidula MITTEN in *Journ. Linn. Soc. Bot.* VIII (1864) p. 155.

Homalia apiculata DOZY et MOLKENBOER in SANDE-LACOSTE, *Prodr. fl. Japon.*

Neckera nitidula BROTHERUS in *Hedwigia* XXXVIII (1899) p. 228.

Nom. Jap. Ribon-goke, Tuyatuke-ribon-goke.

Hab. On earth among rocks.

Saghalien : Mt. Suzuyadake, prov. Toyohara (Y. HORIKAWA, Sept. 14, 1939).

This species is new to Saghalien !

98) **Pogonatum urnigerum** (LINNÆUS) PALISOT de BEAUVOIS, *Prodr.* (1805) p. 84.

Polytrichum urnigerum LINNÆUS, *Sp. Plant.* II (1753) p. 1109.

Polytrichum dubium SCOPOLI, *Fl. carn.* (1760) p. 136.

Bryum urnigerum NECKER, *Delic. gallo-belg.* II (1768) p. 462.

Nom. Jap. Yama-kosugi-goke.

Hab. Rocky ridges and gravelly banks.

Saghalien : Kasugatôge, prov. Toyohara (Y. HORIKAWA, Sept. 15, 1939) ; ca.

Toyohara, prov. Toyohara (Y. HORIKAWA, Sept. 13, 1939) ; Kiminai, prov.

Ôtomari (S. SUGAWARA, Sept. 30, 1939) ; Kitakotan, ins. Kaibatô (Y. HORIKAWA, Sept. 18, 1939).

New to Saghalien !

摘 要

78) 今日マデ歐洲・シベリア・北米ニノミ知ラレテキタ 代表的寒地性乃至高山性ノ苔類ノ一種 *Anthelia Juratzkana* (LIMPR.) TREV. ガ本邦領域ニモ亦産スル。樺太ノ西海岸海馬島臺南岳ノ頂上ニテ筆者自ラ採集シタ。同屬ノかさなりどけ *A. julacea* (L.) DUM. ト相似ルモノノ區別點ハ次ノ通りデアル。即チ *A. julaces* ハ植物體ガ 1-4 cm ニ達シ葉ノ細胞ハ均シク厚膜ヲナシ、雌雄異株、花被ハ長キ卵形。*A. Juratzkana* ハ植物體ガ甚ダ小サク (數 mm ニ過ギズ)、葉

ノ細胞ハ薄膜ヲ具ヘテ形ハ前者ヨリモ大キク、雌雄同株、花被ハ短キ卵形。

83) 同ジク海馬島ノ臺南岳ニテ山道ニ生ジテキテ成熟シタ立派ナ造胞體ヲ具ヘタ *Fossombronina* 屬ノモノヲ筆者ハ澤山ニ採集シタガ、精檢スルトコレハ歐洲・ヒマラヤ・北米ニ分布スル *Fossombronina Wondraczeki* (CORDA) DUM. ト殆ンド區別ガツカナイノデ本種ニ當テルコトニスル。東亞ニハ全ク初メテノ種デアル。

89) *Trematodon longicollis* MICHX. ゆみだいごけハ同屬中デモ蒴柄ガ長ク (2-3 cm) 蒴胞ノ頸部ハ長クシテ明ニ嚙嚙狀ヲナスコトニテ有名デアルガ、今回ノ樺太ノ臺南岳ニ筆者ノ得タモノハ寫眞ニモ見ラレル如ク全體ガ非常ニ小サク、蒴柄モ長サ 8 mm ニ過ギズ、茲ニソノ新變種 *Tr. longicollis* MICHX. var. *minor* ト名ヲツケル。

94) *Aulacomnium androgynum* (L.) SCHWÆGR. ハハもごけ屬 (*Aulacomnium*) 中只一種ニテ特別ナ亞屬 *Orthopyxis* ヲ代表スル極メテ特徴アルモノニシテ四季ヲ通ジテ莖ノ先端ハ直立シテ長ク伸ビ *Pseudopodia* ヲナシ、ソノ先端ニハ多クノ有柄・紡錘形ノ無性芽ヲ球狀ニ着生スル顯著ナ種デアル。長イ間歐洲ト北米ニノミ知ラレ、東亞ニハ (KABERSCH 等ノ如キ歐洲ノ學者達ハ) 分布シナイ例トシテ現今尙ホヨク引合ニ出サレテキルガ、筆者ハ數年前カラ本種ガ北海道ノ北部ヤ樺太ノ泥炭地ニハ可ナリ普通ニ而モ多量ニ産スルコトヲ自ラノ採集ニヨツテ知ツテキタノデアル。

(續ク)